

What is claimed is:

1. A tubular metal fitting insertable into a wall opening and expandable  
5 into the opening to connect it to the wall, comprising:  
a ring portion that is snugly fittable within the wall opening, said ring portion  
having an inner diameter that is separated from the outer diameter by a radius  
dimension;  
an elongated end portion projecting axially outwardly from said ring portion;  
10 said end portion having an inner diameter that is larger than the inner  
diameter of the ring portion, and an outer end that is spaced axially outwardly from  
the ring portion; and  
said ring portion being constructed from a metal that is expandable radially  
while the ring portion is in the opening in the wall, by an amount sufficient to  
15 create a tight fit between the outer diameter of the ring portion and the opening in  
the wall that is sufficient to connect the tubular fitting to the wall.
2. The tubular metal fitting of claim 1, wherein the ring portion includes  
a first end having an outer diameter sized to allow it to be inserted into the  
20 opening in the wall, and an opposite second end, said tubular fitting including a  
radial flange at said second end that is larger in diameter than the opening in the  
wall, said radial flange being positionable adjacent the wall when the outer  
diameter of the ring portion is within the opening in the wall.

25           3.       The tubular metal fitting of claim 1, comprising a radially outwardly  
opening girth groove located in the end portion of the tubular fitting, spaced axially  
outwardly from the ring portion of the tubular fitting.

             4.       The tubular metal fitting of claim 1, comprising a second, opposite  
30 end portion projecting axially outwardly from the ring portion opposite from the first  
end portion.

             5.       The tubular metal fitting of claim 2, comprising a second, opposite  
end portion projecting axially outwardly from the second end of the ring portion.

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             6.       The tubular metal fitting of claim 4, wherein each end portion has a  
radially outwardly opening girth groove spaced axially outwardly from the ring  
portion of the tubular fitting.

40           7.       The tubular metal fitting of claim 5, wherein each end portion of the  
tubular fitting includes a radially outwardly opening girth groove spaced axially  
outwardly from the ring portion of the tubular fitting.

             8.       In combination:  
45           a wall having first and second sides and a circular opening extending  
through the wall between the first and second sides;  
             a tubular metal fitting extending through said opening, said fitting  
comprising:

a ring portion in the opening that is snugly fittable within the wall opening,  
50 and an inner diameter that is separated from the outer diameter by a radius  
dimension;

said ring portion having first and second ends;

an axially elongated first end portion projecting axially outwardly from the  
first end of said ring portion;

55 an axially elongated second end portion projecting axially outwardly from  
the second end of said ring portion;

said ring portion being expanded radially in the wall opening by an amount  
sufficient to create a tight fit between the outer diameter of the ring portion and the  
wall opening that is sufficient to connect the tubular fitting to the wall;

60 said first and second end portions being adapted to be connected to first  
ends of and second conduits; and

said end portions having inner diameters that are larger than the inner  
expanded diameter of the ring portion.

65 9. The combination of claim 8, wherein each end portion includes a  
radially outwardly opening girth groove positioned axially outwardly from the ring  
portion of the tubular fitting.

10. The combination of claim 9, comprising an O-ring in each said girth  
70 groove, and wherein the first and second connectors slip over the first and second  
end portions of the tubular fitting and are contacted by the O-rings.

11. The combination of claim 8, wherein the first and second ring portion has an initial outer diameter sized to allow it to be inserted into the wall opening, and an opposite second end, said tubular fitting including a radial flange at said second end that is larger in diameter than the wall opening, said radial flange being positionable against the wall when the outer diameter of the ring portion is within the wall opening.

12. The combination of claim 11, wherein each end portion includes a radially outwardly opening girth groove positioned axially outwardly from the ring portion of the tubular fitting.

13. The combination of claim 12, comprising an O-ring in each said girth groove, and wherein the first and second connectors slip over the first and second end portions of the tubular fitting and are contacted by the O-rings.

14. The combination of claim 8, wherein the first end portion of the fitting includes a connector component by which it is connected to the first conduit, and the second end portion of the fitting includes a connector component by which it is connected to the second conduit.

15. The combination of claim 14, comprising a seal between the first end portion of the fitting in the first conduit and a seal between the second end portion of the fitting and the second conduit.